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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,664	03/11/2004	Pieter Johannes Marius Van Groos	1857.7540002	3918
	7590 01/26/200 SLER, GOLDSTEIN &	EXAMINER		
1100 NEW YORK AVENUE, N.W.			KIM, PETER B	
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2851	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/797,664	VAN GROOS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Peter B. Kim	2851			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>08 December</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	vn from consideration.				
9) The specification is objected to by the Examine		_			
10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence are replacement drawing sheet(s) including the correction and the confidence are replacement drawing sheet(s) including the correction and the confidence are replacement drawing sheet(s) including the correction are replacement drawing sheet (s) including the correction are replacement drawing	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/8/2008.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Dec. 8, 2008 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, 5, 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakano (2002/0024645) in view of Hattori et al. (Hattori) (2002/0074635) and Satou et al. (Satou) (2002/0162574).

Nakano discloses an assembly and a method of maintaining a machine part arranged in an interior space (9) of a machine, wherein the interior is kept at a first pressure (para 0006) and is separated from an environment (outside of chamber 9) via a load lock (14), the method characterized by transporting a machine part via the load lock out from the interior space; and transporting via the load lock into the interior space, the machine part after being maintained or a separate replacement machine part (para 0012). Nakano discloses the machine which is a lithographic projection apparatus (Fig. 1) and gripper (16) arranged to grip and release substrate.

Nakano discloses the machine part (substrate) which is connected to and disconnected from the machine via a connection system (chuck) and self aligns (alignment system of a lithographic apparatus). Nakano does not disclose transportation of a substrate table or a gripper and a handler that has either a plurality of protrusions or grooves that engage with a plurality of grooves or protrusion located on the machine part. Hattori discloses transporting wafer holder (para 0142, Fig. 4 and 5). Satou discloses a handler (robot arm 40) comprising protrusions (engage pins) which engage with grooves (engaging grooves 18) to transport a machine part. Although Nakano does not discloses that the machine part is a substrate table or a gripper configured to grip and release the substrate or a substrate table, it would have been obvious to one of ordinary skill in the art at the time of the invention to transport a substrate table or a gripper, as taught by Hattori, similar to transportation of the wafer as taught by Nakano in order to purge impurities and prevent contamination (Nakano para 0016, 0017) and to use a handler taught by Satou with the invention of Nakano in order to provide a means of securely holding the machine part.

Claims 1-5, and 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verbeke et al. (Verbeke) (2003/0045131 in view of Hattori et al. (Hattori) (2002/0074635) in view of Satou et al. (Satou).

Verbeke discloses an assembly and a method of maintaining a machine part arranged in an interior space (630) of a machine, wherein the interior is kept at a first pressure (para 0073) and is separated from an environment (610) via a load lock (606, 608), the method characterized by transporting a machine part via the load lock out from the interior space; and transporting via

the load lock into the interior space, the machine part after being maintained or a separate replacement machine part (para 0073) wherein the apparatus and the load lock are arranged to maintain the first pressure when open to the interior space, and to maintain the second pressure when open to machine part or a separate replacement part (para 0073). Verbeke also discloses cleaning the machine part outside the interior part (200, para 0050). Verbeke discloses the machine which is a lithographic projection apparatus (Fig. 18A, ref 1816) and gripper (1808) arranged to grip and release substrate. Verbeke discloses the machine part (substrate) which is connected to and disconnected from the machine via a connection system (chuck) and self aligns (alignment system of a lithographic apparatus). Verbeke does not disclose transportation of a substrate table or a gripper and a handler that has either a plurality of protrusions or grooves that engage with a plurality of grooves or protrusion located on the machine part. Hattori discloses transporting wafer holder (para 0142, Fig. 4 and 5). Satou discloses a handler (robot arm 40) comprising protrusions (engage pins) which engage with grooves (engaging grooves 18) to transport a machine part. Although Verbeke does not discloses that the machine part is a substrate table or a gripper configured to grip and release the substrate or a substrate table, it would have been obvious to one of ordinary skill in the art at the time of the invention to transport a substrate table or a gripper, as taught by Hattori, similar to transportation of the wafer as taught by Verbeke in order to purge impurities and prevent contamination (Verbeke para 0070-0073) and to use a handler taught by Satou with the invention of Verbeke in order to provide a means of securely holding the machine part.

Claims 6-8, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakano in view of Hattori et al. and Satou et al. as applied to claims 1 and 11 above, and further in view of Miyai et al. (Miyai) (5,825,470).

Nakano discloses the claimed invention as discussed above; however, Nakano does not disclose the machine part which is a substrate table and a pin, which can extend thorough the substrate table to displace the table with respect to the chuck. Miyai discloses transporting a machine part which is a substrate holder (44) from an interior space (12) to an outer environment (14). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to apply the invention of Nakano including the load lock to transporting of the substrate holder from the exposure chamber to the cleaning chamber using the load lock in order to prevent any impurities from entering the exposure chamber as taught by Nakano in para 0010.

Claims 6-8, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verbeke et al. (Verbeke) in view of Hattori et al. and Satou et al. as applied to claims 1 and 11 above, and further in view of Miyai et al. (Miyai).

Verbeke discloses the claimed invention as discussed above; however, Verbeke does not disclose the machine part which is a substrate table and a pin, which can extend thorough the substrate table to displace the table with respect to the chuck. Miyai discloses transporting a machine part which is a substrate holder (44) from an interior space (12) to an outer environment (14). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to apply the invention of Verbeke including the load lock to transporting of the substrate holder from the exposure chamber to the cleaning chamber using the load lock in order

to prevent exposing the exposure space to the atmosphere of the cleaning space as taught by Verbeke in para 0070-0073.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 11 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 17 of U.S. Patent No. 7,123,349 in view of Hattori et al. (Hattori) and Satou et al. (Satou). Both sets of claims are directed to an assembly for transporting a machine part from one environment to another environment via a load lock. 7,123,349 does not claim transportation of a substrate table or a gripper or a gripper and a handler that has either a plurality of protrusions or grooves that engage with a plurality of grooves or protrusion located on the machine part. Hattori discloses transporting wafer holder (para 0142, Fig. 4 and 5). Satou discloses a handler (robot arm 40) comprising protrusions

(engage pins) which engage with grooves (engaging grooves 18) to transport a machine part. Although 7,123,349 does not claim that the machine part is a substrate table or a gripper configured to grip and release the substrate or a substrate table, it would have been obvious to one of ordinary skill in the art at the time of the invention to transport a substrate table or a gripper, as taught by Hattori, similar to transportation of the wafer as claimed by 7,123,349 in order to purge impurities and prevent contamination. Although 7,123,349 does not claim a method, it would have been obvious to one of ordinary skill in the art to provide a method of transporting from the claimed apparatus since the same apparatus is used in the process and to use a handler taught by Satou with the invention of 7,23,349 in order to provide a means of securely holding the machine part.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection. In response to the amendments to the claim, the rejection has been modified as above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Peter B. Kim/ Primary Examiner, Art Unit 2851

January 20, 2009